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PATENT  
Our Docket: P-IX 4102

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

William D. Huse

Serial No.: 09/900,590

Filed: July 6, 2001

For: COMPOSITIONS AND METHODS FOR  
PRODUCING ENHANCED ANTIBODIES

Commissioner for Patents  
Washington, D.C. 20231

X4  
) Examiner: Not yet assigned  
) Group Art Unit: Not yet  
) assigned  
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) October 9, 2001.

) By David A. Gay  
David A. Gay, Reg. No. 39,200

October 9, 2001  
Date of Signature

Sir:

**INFORMATION DISCLOSURE STATEMENT**

In accordance with 37 C.F.R. § 1.97, enclosed are references relating to the above-identified application. For the convenience of the Examiner, these references are listed on the attached Form PTO-1449, and a copy of each is enclosed herewith.

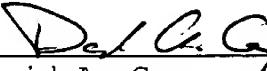
It is respectfully requested that these references be considered in the examination of this application and that their consideration be made of written record in the application file.

Inventor: William D. Huse  
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No fee is deemed necessary in connection with the filing of this Information Disclosure Statement. However, if any fee is required, authorization is hereby given to charge the amount of any such fee to Deposit Account No. 03-0370.

Respectfully submitted,

October 9, 2001  
Date

  
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Form PTO 1449 US Department of Commerce Patent and Trademark Office	ATTY DOCKET NO: P-IX 4102	SERIAL NO. 09/900,590
	<b>APPLICANT:</b> William D. Huse	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>	<b>FILING DATE:</b> July 6, 2001	<b>GROUP:</b> Not yet assigned

#### U. S. PATENT DOCUMENTS

EXAM. INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
		5,585,089	12/17/96	Queen et al.			
		5,693,762	12/02/97	Queen et al.			
		6,096,551	08/01/00	Barbas et al.			

#### FOREIGN PATENT DOCUMENTS

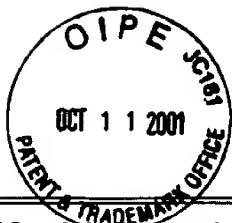
EXAM. INITIALS		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION (YES/NO)

#### OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages)

		Dueñas et al., "Selection of Phage Displayed Antibodies Based on Kinetic Constants," <u>Molec. Immun.</u> , 33(3):279-285 (1996).
		Foote and Milstein, "Kinetic Maturation of an Immune Response," <u>Nature</u> , 352:530-532 (1991).

EXAMINER	DATE CONSIDERED
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



Form PTO 1449	US Department of Commerce Patent and Trademark Office	ATTY DOCKET NO: P-IX 4102	SERIAL NO. 09/900,590
		APPLICANT: William D. Huse	
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	Myszka et al., "Kinetic Analysis of a Protein Antigen-Antibody Interaction Limited by Mass Transport on an Optical Biosensor," <u>Biophys. Chem.</u> , 64:127-137 (1997).
	Schier and Marks, "Efficient In Vitro Affinity Maturation of Phage Antibodies using BIACore Guided Selections," <u>Hum. Antibod. Hybridomas</u> , 7 (3):97-105 (1996).
	Schier et al., "In Vitro and In Vivo Characterization of a Human Anti-c-erbB-2 Single-Chain Fv Isolated from a Filamentous Phage Antibody Library," <u>Immunotechnology</u> , 1:73-81 (1995).
	Schier et al., "Isolation of High-affinity Monomeric Human Anti-c-erbB-2 Single Chain Fv Using Affinity-driven Selection," <u>J. Mol. Biol.</u> , 255:28-43 (1996).
	Schier et al., "Isolation of Picomolar Affinity Anti-c-erbB-2 Single-chain Fv by Molecular Evolution of the Complimentarity Determining Regions in the Center of the Antibody Binding Site," <u>J. Mol. Biol.</u> , 263:551-567 (1996).
	Thompson et al., "Affinity Maturation of a High-affinity Human Monoclonal Antibody Against the Third Hypervariable Loop of Human Immunodeficiency Virus: Use of Phage Display to Improve Affinity and Broaden Strain Reactivity," <u>J. Mol. Biol.</u> , 256:77-88 (1996).
	Zeder-Lutz et al., "Monoclonal Antipeptide Antibodies: Affinity and Kinetic Rate Constants Measured for the Peptide and the Cognate Protein Using a Biosensor Technology," <u>Mol. Immunol.</u> , 30(2):145-155 (1993).

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